

# ***STIC Search Report***

## ***EIC 2800***

### **STIC Database Tracking Number**

**TO: Karl Tamai**  
**Location: CP4- 11A15**  
**Art Unit : 2834**  
**Monday, June 23, 2003**

**Case Serial Number: 10/040627**

**From: Darcy Bates**  
**Location: EIC 2800**  
**CP4-9C18**  
**Phone: 306-5419**

**darcy.bates@uspto.gov**

### **Search Notes**

**Re: 10/040,627 US RE 37,967**

**Attached are search results.**

**No U. S. litigation was found in searches of  
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let  
me know.**

**Thanks,  
Darcy Bates**

## Bates, Darcy

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**From:** Tamai, Karl  
**Sent:** Friday, June 20, 2003 6:27 AM  
**To:** Bates, Darcy  
**Subject:** reissue litigation search?

what info do you or jeff need for a litigation search in a reissue application?

app number: 10/040627

In re Reissue Application:

Filed: June 5, 1997

Patent No. 5,422,524

Granted: June 6, 1995

Patentee: Koyo Seiko Co., Ltd.

For: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING THE SAME FOR USE IN VEHICLES

there are two other reissue application at the PTO for the same patent, so you probably have already done this search once.

karl.

Day : Monday  
Date: 6/23/2003

**PALM INTRANET**

Time: 08:55:39

**Application Number Information**Application Number: **10/040627****Assignments**Examiner Number: **73435 / TAMAI, KARL**Filing Date: **01/09/2002**Group Art Unit: **2834** **IMAGE**Effective Date: **01/09/2002**Class/Subclass: **310/090.000**Application Received: **01/09/2002**Lost Case: **NO**

Patent Number:

Interference Number:

Issue Date: **00/00/0000**Unmatched Petition: **NO**Date of Abandonment: **00/00/0000**

L&amp;R Code: Secrecy Code:1

Attorney Docket Number: **P64591US2**Third Level Review: **NO**Secrecy Order: **NO**Status: **30 /DOCKETED NEW CASE - READY FOR EXAMINATION** Status Date: **06/09/2003**Confirmation Number: **3842**Oral Hearing: **NO**Title of Invention: **ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING  
SAME FOR USE IN VEHICLES**

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Day : Monday  
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Time: 08:55:44

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# Continuity Information for 10/040627

## Parent Data

10040627

is a continuation of 08869844

Which is a reissue of 08152687

is a division of 07203972

## Child Data

No Child Data

<a href="#">Appln Info</a>	<a href="#">Contents</a>	<a href="#">Petition Info</a>	<a href="#">Atty/Agent Info</a>	<b><a href="#">Continuity Data</a></b>	<a href="#">Foreign Data</a>	<a href="#">Invent</a>
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# **PALM INTRANET**

Time: 08:55:48

## Application Number Information

Application Number: **08/869844**

### Assignments

Examiner Number: **73435 / TAMAI, KARL**

Filing Date: **06/05/1997**

Group Art Unit: **2834**

Effective Date: **06/05/1997**

Class/Subclass: **310/090.000**

Application Received: **06/05/1997**

Lost Case: **NO**

Patent Number: **RE37967**

Interference Number:

Issue Date: **01/21/2003**

Unmatched Petition: **NO**

Date of Abandonment: **00/00/0000**

L&R Code: Secrecy Code:1

Attorney Docket Number: **P64591US0**

Third Level Review: **NO**

Secrecy Order: **NO**

Status: **150 /PATENTED CASE**

Status Date: **01/02/2003**

Confirmation Number: **6235**

Oral Hearing: **NO**

Title of Invention: **ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING SAME FOR USE IN VEHICLES**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
<b>08869844</b>	<b>2811</b>	<b>06/18/2003</b>	<b>28X1</b>	<b>TAMAI, KARL</b>	<b>NGO, CHAU</b>	<b>CP4/03/C 32</b>

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Time: 08:55:52

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## Continuity Information for 08/869844

### Parent Data

08869844

is a reissue of 08152687

is a division of 07203972

### Child Data

10040627 is a continuation of 08869844

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# PALM INTRANET

Time: 08:55:56

## Application Number Information

Application Number: 08/152687

### Assignments

Examiner Number: 69091 / HASZKO, DENNIS

Filing Date: 11/16/1993

Group Art Unit: 2102

Effective Date: 11/16/1993

Class/Subclass: 310/090.000

Application Received: 11/16/1993

Lost Case: NO

Patent Number: 5422524

Interference Number:

Issue Date: 06/06/1995

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: P133005

Third Level Review: NO

Secrecy Order: NO

Status: 150 /PATENTED CASE

Status Date: 05/26/1995

Confirmation Number: 2005

Oral Hearing: NO

Title of Invention: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING  
SAME FOR USE IN VEHICLES

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08152687	28I1	06/16/2003	28X1	TAMAI, KARL	NGO,CHAU	CP4/03/C 32

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Day : Monday  
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Time: 08:56:00

**PALM INTRANET**

# Continuity Information for 08/152687

## Parent Data

08152687

is a division of 07203972

## Child Data

08869844 is a division of 07203972

10040627 is a continuation of 08869844

<a href="#">Appln Info</a>	<a href="#">Contents</a>	<a href="#">Petition Info</a>	<a href="#">Atty/Agent Info</a>	<b><a href="#">Continuity Data</a></b>	<a href="#">Foreign Data</a>	<a href="#">Invent</a>
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## PALM INTRANET

### Application Number Information

Application Number: **07/203972**

#### Assignments

Filing Date: **06/08/1988**

Effective Date: **06/08/1988**

Application Received: **06/08/1988**

Patent Number:

Issue Date: **00/00/0000**

Date of Abandonment: **11/23/1993**

Attorney Docket Number: **P13-1560-A88**

Status: **164 /ABANDONED -- FAILURE TO PAY ISSUE FEE**

Confirmation Number: **5752**

Title of Invention: **ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING  
SAME FOR USE IN VEHICLES**

Examiner Number: **59883 / FOOTLAND, LENARD**

Group Art Unit: **2405**

Class/Subclass: **384/492.000**

Lost Case: **NO**

Appeal Number: **931131**

Unmatched Petition: **NO**

L&R Code: Secrecy Code:1

Third Level Review: **NO**

Secrecy Order: **NO**

Status Date: **11/23/1993**

Oral Hearing: **YES**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
<b>07203972</b>	<b>2811</b>	<b>06/17/2003</b>	<b>28X1</b>	<b>TAMAI, KARL</b>	<b>NGO,CHAU</b>	<b>CP4/03/C 32</b>

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**PALM INTRANET**

## Continuity Information for 07/203972

### Parent Data

No Parent Data

### Child Data

08152687 is a division of 07203972

08869844 is a division of 07203972

10040627 is a continuation of 08869844

Appn Info	Contents	Petition Info	Atty/Agent Info	<b>Continuity Data</b>	Foreign Data	Invent
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Terms: **37967** (Edit Search)

869844 (08) RE 37967 January 21, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
RE **37967**

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January 21, 2003

Antifriction bearing and alternator incorporating same for use in vehicles

**INVENTOR:** Nakamura, Sigenobu - Anjo, Japan (JP); Siga, Tutomu - Aichi-ken, Japan (JP); Mitani, Kenzo - Obu, Japan (JP); Fujita, Yoshiki - Osaka, Japan (JP); Kitamura, Masayuki - Osaka, Japan (JP); Miyazaki, Hiroyuki - Osaka, Japan (JP); Hoshino, Teruo - Osaka, Japan (JP)

**APPL-NO:** 869844 (08)

**FILED-DATE:** June 5, 1997

**GRANTED-DATE:** January 21, 2003

**PRIORITY:** June 10, 1987 - 62145483, Japan (JP); June 10, 1987 - 62145484, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Koyo Seiko Co., Ltd., Osaka, Japan (JP), 03  
Denso Corporation, Kariya, Japan (JP), 03

**LEGAL-REP:** Jacobson Holman PLLC

**PUB-TYPE:** January 21, 2003 - Reissue Patent (E1)

**PUB-COUNTRY:** United States (US)

**REL-DATA:**

Reissue of: 08/152687, November 16, 1993, PENDING 05422524, June 6, 1995

**US-MAIN-CL:** 310#90

**US-ADDL-CL:** 310#42, 29#898.14

**CL:** 310, 29

**SEARCH-FLD:** 310#90, 310#42, 029#898.14

**IPC-MAIN-CL:** 7F 16C035#0

**IPC ADDL CL:** H 02K005#16

**PRIM-EXMR:** Tamai, Karl



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37967

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Terms: **patno=5422524** (Edit Search)

*152687 (08) 5422524 June 6, 1995*

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
**5422524**

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June 6, 1995

Antifriction bearing and alternator incorporating same for use in vehicles

**REISSUE:** Reissue Application filed Jun. 5, 1997 (O.G. Apr. 21, 1998) Ex. Gp.: 2102; Re. S.N. 08/869,844, (O.G. April 21, 1998)

June 9, 2002 - Reissue Application filed Ex. Gp.: 2834; Re. S.N. 10/040,627 (O.G. August 6, 2002)

January 21, 2003 - This Patent was reissued as Reissue Patent RE 37,967 (O.G. January 21, 2003)

**INVENTOR:** Nakamura, Sigenobu, Chiryu, JP; Siga, Tutomu, Aichi, JP; Mitani, Kenzo, Obu, JP; Fujita, Yoshiki, Osaka, JP; Kitamura, Masayuki, Osaka, JP; Miyazaki, Hiroyuki, Osaka, JP; Hoshino, Teruo, Osaka, JP

**APPL-NO:** 152687 (08)

**FILED-DATE:** November 16, 1993

**GRANTED-DATE:** June 6, 1995

**PRIORITY:** June 10, 1987 - 62145483, Japan (JP); June 10, 1987 - 62145484, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Koyo Seiko Co., Ltd., Osaka, JP  
Nippondenso Co., Ltd., Osaka, JP

**ASSIGNEE-AFTER-ISSUE:** January 26, 1998 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., DENSO CORPORATION 1-1, SHOWA- CHO KARIYA-SHI, AICHI-KEN JAPAN, Reel and Frame Number: 009123/0625

April 8, 2002 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., DENSO CORPORATION 1-1, SHOWA- CHO, KARIYA-SHI AICHI-KEN JAPAN, Reel and Frame Number: 012762/0568

**LEGAL-REP:** Nikaido, Marmelstein Murray & Oram

**PUB-TYPE:** June 6, 1995 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**REL-DATA:**

Addition of Ser. No. 203972, June 8, 1988



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patno=5422524

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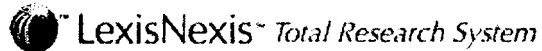
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Search statement 1

Query/Command : usre37967/pn

\*\* SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

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PN - USRE37967 E1 20030121 [USRE37967]  
TI - (E1) Antifriction bearing and alternator incorporating same for use in vehicles  
PA - (E1) KOYO SEIKO CO (JP); DENSO CORP (JP)  
PAO - Koyo Seiko Company, Ltd., Osaka [JP]  
Denso Corporation, Kariya [JP]  
IN - (E1) KITAMURA MASAYUKI (JP); MIYAZAKI HIROYUKI (JP); NAKAMURA SIGENOBU (JP); HOSHINO TERUO (JP); SIGA TUTOMU (JP); FUJITA YOSHIKI (JP); MITANI KENZO (JP)  
AP - US86984497 19970605 [1997US-0869844]  
FD - Reissue of: US5422524 - 19950606  
PR - US86984497 19970605 [1997US-0869844]  
JP14548387 19870610 [1987JP-0145483]  
JP14548487 19870610 [1987JP-0145484]  
US15268793 19931116 [1993US-0152687]  
US20397288 19880608 [1988US-0203972]  
IC - (E1) F16C-035/00 H02K-005/16  
EC - F16C-033/62  
H02K-005/173C  
PCL - ORIGINAL (O) : 310090000; CROSS-REFERENCE (X) : 029898140  
310042000  
DT - Corresponding document  
CT - US4191599; US4240682; US4323401; US4429924; US4476405; US4546280;  
US4634908; US4696581; US4808226; AT362807; GB1361553; JP56-34615  
Okamoto et al., Effect of SI and Retained Austenite on the Rolling Fatigue Life of Bearing Steel, Seititsu Kenkyu, No. 277, 1973.\*  
  
Tsushima et al., "Improvement of Rolling Contact Fatigue Life of Carburized Tapered Rolling Bearings", SAE Technical Paper 860725, Apr. 1986.\*  
  
Patent Abstracts of Japan, unexamined applications, section C, vol. 12, No. 82 (c-481), Mar. 15, 1988.  
  
"Zwischenstufenumwandlung von Walzlagerstählen," WTS 74 06 20, SKF Kugellagerfabriken GmbH (Feb. 1974).  
  
E. Yamiya et al., "Effects of Retained Austenite on the Rolling Fatigue Life of Ball Bearing Steels," translation of article published in J. Japan Inst. Metals, vol. 36, p. 711 (1972).

Handbook of Metals, Japan Metal Society, Maruzen Co., Ltd. (Rev. 4th Ed., 1982), sections 7.6.1-7.6.2.

**STG** - (E1) Reissue Patent  
**AB** - An antifriction bearing includes a fixed ring which comprises a steel containing up to about 10% of residual austenite. An alternator for vehicles includes a stator mounted on a frame, a rotor having its rotary shaft rotatably supported by a pair of bearings on the frame and a drive pulley mounted on one end of the shaft projecting outward from the frame. The outer ring of at least the bearing toward the pulley comprises a steel containing up to about 10% of residual austenite.  
**UP** - 2003-05

1 / 1 LGST - @LEGSTAT  
**PN** - US 37967 [USRE37967]  
**AP** - US 869844/97 19970605 [1997US-0869844]  
**DT** - US-E  
**ACT** - 19970605 US/AE-A  
 APPLICATION DATA (PATENT)  
 US 869844/97 19970605 [1997US-0869844]  
 20030121 US/E1 [+]  
 REISSUE (PRE-GRANT)  
**UP** - 2003-06

Query/Command : fam re37967/pn

1 Patent Groups  
 \*\* SS 3: Results 6

Search statement 4

Query/Command : famstate nonstop

1 / 6 PLUSPAT - @QUESTEL-ORBIT  
**PN** - DE3851573 D1 19941027 [DE3851573]  
**STG** - (D1) Granted EP number in bulletin  
**OTI** - (D1) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter Fahrzeugalternator.  
**PA** - (D1) NIPPON DENSO CO (JP); KOYO SEIKO CO (JP)  
**IN** - (D1) NAKAMURA SIGENOBU (JP); SIGA TUTOMU (JP); MITANI KENZO (JP); FUJITA YOSHIKI (JP); KITAMURA MASAYUKI (JP)  
**IC** - (D1) F16C-033/62 H02K-005/173  
**PN2** - DE3851573 T2 19950323 [DE3851573]  
**STG2** - (T2) Trans. Of EP patent  
**OTI2** - (T2) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter Fahrzeugalternator.  
**PA2** - (T2) NIPPON DENSO CO (JP); KOYO SEIKO CO (JP)  
**IN2** - (T2) NAKAMURA SIGENOBU (JP); SIGA TUTOMU (JP); MITANI KENZO (JP); FUJITA YOSHIKI (JP); KITAMURA MASAYUKI (JP)  
**IC2** - (T2) F16C-033/62 H02K-005/173  
**AP** - DE3851573 19880609 [1988DE-3851573]  
**PR** - JP14548387 19870610 [1987JP-0145483]  
 JP14548487 19870610 [1987JP-0145484]

1 / 2    LEGALI - ©LEGSTAT  
PN -    DE 3851573    {DE3851573}  
DT -    DE-P  
ACTE-    19941027    DE/REF-P  
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          19950323    DE/8373  
          TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND  
          HAS BEEN PUBLISHED  
  
          19950921    DE/8363    [-]  
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          COMPLETE REVOCATION  
UP -    2000-03  
  
2 / 2    LEGALI - ©LEGSTAT  
PN -    EP 294813    {EP-294813}  
AP -    EP 88109225/88    19880609    {1988EP-0109225}  
DT -    EP-P  
ACTE-    19880609    EP/AE-A  
          EP-APPLICATION  
          EP 88109225/88    19880609    {1988EP-0109225}  
  
          19881214    EP/AK-A2    [+]  
          DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH  
          REPORT:  
          DE FR GB IT  
  
          19881214    EP/A2    [+]  
          PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
  
          19900110    EP/AK-A3    [+]  
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          DE FR GB IT  
  
          19900110    EP/A3    [+]  
          SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)  
  
          19900620    EP/17P    [+]  
          REQUEST FOR EXAMINATION FILED  
          900421  
  
          19911211    EP/17Q    [+]  
          FIRST EXAMINATION REPORT  
          911024  
  
          19940921    EP/AK-B1    [+]  
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          CORRESPONDS TO:  
          (DE 3851573    19941027    {DE3851573})

19941110 EP/ET [+]  
FR: TRANSLATION FILED

19941206 EP/ITF [-]  
IT: TRANSLATION FOR A EP PATENT FILED  
STUDIO TORTA SOCIETA' SEMPLICE

19950816 EP/26 [-]  
OPPOSITION FILED  
950619 AB SKF

19991215 EP/GBPR [-]  
GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING  
THE UK AS CONTRACTING STATE  
991024

19991215 EP/27W [-]  
REVOKED  
19991024

UP - 2000-03

2 / 6 PLUSPAT - @QUESTEL-ORBIT - image  
PN - EP0294813 A2 19881214 [EP-294813]  
STG - (A2) Pub. Of applic. Without search report  
TI - (A2) Antifriction bearing and alternator incorporating same for  
use in vehicles.  
OTI - (A2) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter  
Fahrzeugalternator.  
(A2) Palier antifriction et alternateur de véhicule comprenant un  
tel palier.  
PA - (A2) KOYO SEIKO CO (JP); NIPPON DENSO CO (JP)  
IN - (A2) KITAMURA MASAYUKI; NAKAMURA SIGENOBU; SIGA TUTOMU; FUJITA  
YOSHIKI; MITANI KENZO  
IC - (A2) F16C-033/62 H02K-005/173  
PN2 - EP0294813 A3 19900110 [EP-294813]  
STG2 - (A3) Publi. Of search report  
TI2 - (A3) ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING SAME FOR  
USE IN VEHICLES  
PN3 - EP0294813 B1 19940921 [EP-294813]  
STG3 - (B1) Patent  
TI3 - (B1) Antifriction bearing and alternator incorporating same for  
use in vehicles.  
OTI3 - (B1) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter  
Fahrzeugalternator.  
(B1) Palier antifriction et alternateur de véhicule comprenant un  
tel palier.  
PA3 - (B1) KOYO SEIKO CO (JP); NIPPON DENSO CO (JP)  
IN3 - (B1) KITAMURA MASAYUKI (JP); NAKAMURA SIGENOBU (JP); SIGA TUTOMU  
(JP); FUJITA YOSHIKI (JP); MITANI KENZO (JP)  
IC3 - (B1) F16C-033/62 H02K-005/173  
LA - ENGLISH (ENG)  
AP - EP88109225 19880609 [1988EP-0109225]  
PR - JP14548387 19870610 [1987JP-0145483]  
JP14548487 19870610 [1987JP-0145484]  
EC - F16C-C33/62  
H02K-C05/173C  
DS - DE FR GB IT  
DT - Basic



1 / 2    LEGALI - @LEGSTAT  
PN -    DE 3851573    [DE3851573]  
DT -    DE-P  
ACTE-    19941027    DE/REF-P  
          CORRESPONDS TO  
          (EP 294813    19941027    [EP-294813])  
  
          19950323    DE/8373  
          TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND  
          HAS BEEN PUBLISHED  
  
          19950921    DE/8363    [-]  
          OPPOSITION AGAINST THE PATENT  
  
          20000120    DE/8331    [-]  
          COMPLETE REVOCATION  
UP -    2000-03  
  
2 / 2    LEGALI - @LEGSTAT  
PN -    EP 294813    [EP-294813]  
AP -    EP 88109225/88    19880609    [1988EP-0109225]  
DT -    EP-P  
ACTE-    19880609    EP/AE-A  
          EP-APPLICATION  
          EP 88109225/88    19880609    [1988EP-0109225]  
  
          19881214    EP/AK-A2    [+]  
          DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH  
          REPORT:  
          DE FR GB IT  
  
          19881214    EP/A2    [+]  
          PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
  
          19900110    EP/AK-A3    [+]  
          DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
          DE FR GB IT  
  
          19900110    EP/A3    [+]  
          SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)  
  
          19900620    EP/17P    [-]  
          REQUEST FOR EXAMINATION FILED  
          900421  
  
          19911211    EP/17Q    [+]  
          FIRST EXAMINATION REPORT  
          911024  
  
          19940921    EP/AK-B1    [+]  
          DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
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          19940921    EP/B1    [+]  
          PATENT SPECIFICATION  
  
          19941027    EP/REF-P  
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          (DE 3851573    19941027    [DE3851573])  
  
          19941110    EP/ET    [+]

FR: TRANSLATION FILED

19941206 EP/ITF [+]  
IT: TRANSLATION FOR A EP PATENT FILED  
STUDIO TORTA SOCIETA' SEMPLICE

19950816 EP/26 [-]  
OPPOSITION FILED  
950619 AB SKF

19991215 EP/GBPR [-]  
GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING  
THE UK AS CONTRACTING STATE  
991024

19991215 EP/27W [-]  
REVOKED  
19991024

UP - 2000-03

3 / 6 PLUSPAT - @QUESTEL-ORBIT  
PN - JP63308218 A 19881215 [JP63308218]  
STG - (A) Doc. Laid open to publ. Inspec.  
TI - (A) ROLLING BEARING  
PA - (A) KOYO SEIKO CO; NIPPON DENSO CO  
PAO - (A) KOYO SEIKO CO LTD; NIPPON DENSO CO LTD  
IN - (A) KITAMURA MASAYUKI; MIYAZAKI HIROYUKI; HOSHINO TERUO; FUJITA  
YOSHIKI; NAKAMURA SHIGENOBU; MITANI KENZOU; SHIGA TSUTOMU  
IC - (A) F16C-033/62  
AP - JP14548387 19870610 [1987JP-0145483]  
PR - JP14548387 19870610 [1987JP-0145483]

4 / 6 PLUSPAT - @QUESTEL-ORBIT - image  
PN - JP63308219 A 19881215 [JP63308219]  
STG - (A) Doc. Laid open to publ. Inspec.  
TI - (A) AC GENERATOR FOR VEHICLE  
PA - (A) NIPPON DENSO CO; KOYO SEIKO CO  
PAO - (A) NIPPON DENSO CO LTD; KOYO SEIKO CO LTD  
IN - (A) NAKAMURA SHIGENOBU; MITANI KENZOU; SHIGA TSUTOMU; KITAMURA  
MASAYUKI; FUJITA YOSHIKI  
IC - (A) F16C-033/62 H02K-007/08  
PN2 - JP7072565 B 19950802 [JP95072565]  
STG2 - (B) Publd. Examined patent applic.  
IC2 - (B) F16C-033/62  
AP - JP14548487 19870610 [1987JP-0145484]  
PR - JP14548487 19870610 [1987JP-0145484]

5 / 6 PLUSPAT - @QUESTEL-ORBIT - image  
PN - US5422524 A 19950606 [US5422524]  
STG - (A) United States patent  
TI - (A) Antifriction bearing and alternator incorporating same for use  
in vehicles  
PA - (A) KOYO SEIKO CO (JP); NIPPON DENSO CO (JP)  
PAO - Koyo Seiko Company, Ltd., Osaka [JP]  
Nippondenso Company, Ltd., Osaka [JP]  
IN - (A) KITAMURA MASAYUKI (JP); MIYAZAKI HIROYUKI (JP); NAKAMURA  
SHIGENOBU (JP); HOSHINO TERUO (JP); SHIGA TSUTOMU (JP); FUJITA

YOSHIKI (JP); MITANI KENZO (JP)  
**IC** - (A) F16C-035/00 H02K-005/16  
**AP** - US15268793 19931116 [1993US-0152687]  
**PR** - US15268793 19931116 [1993US-0152687]  
 JP14548387 19870610 [1987JP-0145483]  
 JP14548487 19870610 [1987JP-0145484]  
 US20397288 19880608 [1988US-0203972]  
**EC** - F16C-033/62  
 H02K-005/173C  
**PCL** - ORIGINAL (O) : 310090000; CROSS-REFERENCE (X) : 029898140  
 310042000  
**DT** - Corresponding document

1 / 1 LEGALI - @LEGSTAT  
**PN** - US 5422524 [US5422524]  
**AP** - US 152687/93 19931116 [1993US-0152687]  
**DT** - US-P  
**ACTE**- 19931116 US/AE-A  
 APPLICATION DATA (PATENT)  
 US 152687/93 19931116 [1993US-0152687]

19950606 US/A  
 PATENT

19980126 US/AS01  
 CHANGE OF NAME  
 DENSO CORPORATION 1-1, SHOWA-CHO KARIYA-SHI, AICHI-KEN, JAPAN \*  
 NIPPONDENSO CO., LTD. : 19970807

19980421 US/RF  
 REISSUE APPLICATION FILED  
 970605

20020806 US/RF  
 REISSUE APPLICATION FILED  
 20020109

**UP** - 2002-35

6 / 6 PLUSPAT - @QUESTEL-ORBIT - image  
**PN** - USRE37967 E1 20030121 [USRE37967]  
**STG** - (E1) Reissue Patent  
**TI** - (E1) Antifriction bearing and alternator incorporating same for  
 use in vehicles  
**PA** - (E1) KOYO SEIKO CO (JP); DENSO CORP (JP)  
**PAO** - Koyo Seiko Company, Ltd., Osaka [JP]  
 Denso Corporation, Kariya [JP]  
**IN** - (E1) KITAMURA MASAYUKI (JP); MIYAZAKI HIROYUKI (JP); NAKAMURA  
 SIGENOBU (JP); HOSHINO TERUO (JP); SIGA TUTOMU (JP); FUJITA  
 YOSHIKI (JP); MITANI KENZO (JP)  
**IC** - (E1) F16C-035/00 H02K-005/16  
**AP** - US86984497 19970605 [1997US-0869844]  
**PR** - US86984497 19970605 [1997US-0869844]  
 JP14548387 19870610 [1987JP-0145483]  
 JP14548487 19870610 [1987JP-0145484]  
 US15268793 19931116 [1993US-0152687]  
 US20397288 19880608 [1988US-0203972]  
**EC** - F16C-033/62  
 H02K-005/173C  
**PCL** - ORIGINAL (O) : 310090000; CROSS-REFERENCE (X) : 029898140

6/23/03

US RE 37,967

10/040627

310042000

**DT** - Corresponding document

**UP** - 2003-05

1 / 1 *LEGALI - ©LEGSTAT*

**PN** - US 37967 [USRE37967]

**AP** - US 869844/97 19970605 [1997US-0869844]

**DT** - US-E

**ACTE**- 19970605 US/AE-A

APPLICATION DATA (PATENT)


US 869844/97 19970605 [1997US-0869844]

20030121 US/E1 [+]

REISSUE (PRE-GRANT)

**UP** - 2003-06

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37,967) or ((reissu! or (re pre/1 issu!)) and (37967 or  
37,967))



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37,967))

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- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

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37,967) or ((reissu! or (re pre/1 issu!)) and (37967 or  
37,967))

**Search**

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- If applicable, look for all dates.

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